


<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER KENT-B-PCT-US
		U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.5) <b>10/7553328</b>
INTERNATIONAL APPLICATION NO. PCT/US2004/015411	INTERNATIONAL FILING DATE 17 May 2004	PRIORITY DATE CLAIMED 19 May 2003
TITLE OF INVENTION: METHOD OF PLASMA BEAM BOMBARDMENT OF ALIGNING FILMS FOR LIQUID CRYSTALS		
APPLICANT(S) FOR DO/EO/US: CHIEN, Liang-Chy; DOBROVOLSKYY, Andriy; YAROSHCHUK, Oleg; LAURENTOVICH, Oleg		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11. to 20. below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with pct rule 13ter.2 and 37 CFR 1.821-1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the International application under 35 U.S.C. 154(d)(4).</li> <li>20. <input type="checkbox"/> Other items or information:</li> </ol>		

SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JC20 Rec'd PCT/PTO 14 OCT 2005

PTO-1390 (Rev. 12-2004)  
Approved for use through 3/31/2007. OMB 0651-0021

U.S. APPLICATION NO. <b>10/555326</b> (SEE 37 CFR 1.5)		INTERNATIONAL APPLICATION NO. <b>PCT/US2004/015411</b>		ATTORNEY'S DOCKET NUMBER <b>KENT-B-PCT-US</b>	
The following fees are submitted:				<b>CALCULATIONS</b>	PTO use only
21. <input checked="" type="checkbox"/> Basic national fee ..... \$300.00				\$300.00	
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$100.00 All other situations ..... \$200.00				\$200.00	
23. <input checked="" type="checkbox"/> Search fee ..... Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$100.00 International Search Report prepared and provided to the Office ..... \$400.00 All other situations ..... \$500.00				\$400.00	
<b>TOTAL OF 21, 22 and 23 =</b>				<b>\$900.00</b>	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				\$	
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
-51 =	/50 =	0	x \$250.00	\$0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total Claims 50	50-20=	30	X \$ 50.00	\$1,500.00	
Independent Claims 3	3-3=	0	X \$200.00	\$0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360.00	\$0.00
<b>TOTAL OF ABOVE CALCULATION =</b>				<b>\$2,400.00</b>	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$1,200.00	
<b>SUBTOTAL =</b>				<b>\$1,200.00</b>	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				<b>\$ 1,200.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$1,200.00</b>	
Amount to be refunded:					\$
Amount to be charged:					\$
a. <input checked="" type="checkbox"/> A check in the amount of <b>\$1,200.00</b> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit No. <b>08-3150</b> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card          information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:  Daniel J. Hudak, Jr. Hudak Shunk & Farine Co. LPA 2020 Front Street, Suite 307 Cuyahoga Falls, Ohio 44221 (330) 535-2220					
				x1  SIGNATURE	
				Daniel J. Hudak, Jr. NAME	
				47 669 REGISTRATION NUMBER	

10/553326

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**CERTIFICATE UNDER 37 C.F.R. § 1.10 OF MAILING  
BY "EXPRESS MAIL"**

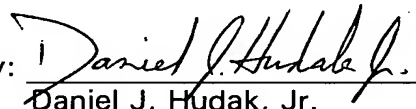
**Applicant:** Liang-Chy Chien, et al.  
**International Application No.:** PCT/US2004/015411  
**International Filing Date:** 17 May 2004  
**Title:** METHOD OF PLASMA BEAM BOMBARDMENT  
OF ALIGNING FILMS FOR LIQUID CRYSTALS  
**Agent's Reference No.:** KENT-B-PCT-US  
**Date:** 14 October, 2005

**EXPRESS MAIL RECEIPT NO.: EV 729415785 US**

**DATE OF DEPOSIT: 14 October 2005**

The undersigned hereby certifies that the attached papers were deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

HUDAK, SHUNK & FARINE CO. LPA

By:   
Daniel J. Hudak, Jr.  
Agent for Applicant

DJHjr/lb

**Enclosures:** Express Mail Certification  
Return postcard  
Transmittal Letter to U.S. Designated/Elected Office (DO/EO/US)  
Concerning a filing under 35 USC § 371 (in duplicate)  
Filing Fee by check of \$1,200.00  
Executed Declaration for Utility or Design Patent Application  
Copy of International Application Published under the PCT  
WO 2004/104682 A1 (51 pages including 13 pages of drawings)  
published with International Search Report  
Copy of International Search Report and Written Opinion  
Information Disclosure Statement and copies of 3 cited refs.  
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Copies of forms PCT/IB/301, 304, 308  
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